

## **Study Plan for Master Studies (on Scholarship)**

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**ALI RAZA**

Dear Admission committee,

Subject: **Statement of Purpose.**

I have completed my Bachelor of Science in Electrical Engineering from “Sir Syed Case Institute of Technology UET Taxila” Islamabad, Pakistan, in October 2019, securing a CGPA of 3.52 out of 4.00.

It's my desire to present myself as an inspire Electrical Engineer, who has been always attracted to the new and advanced research in the field of engineering. I had been always attracted to the subjects related to science and engineering. I always wanted to prolong my career in engineering and science. Consequently, I was delighted to get admission in Engineering University because of my interest and passion in the field of engineering and especially in Electrical Engineering. Indeed, I was lucky to acquire entry to one of the prestigious institutes of Pakistan “Sir Syed Case Institute of Technology(UET-Taxila).” During my four years of bachelor's degree, my interest in Electrical Engineering grew stronger and stronger. And I studied Bachelor of Science in Electrical Engineering with full of concentration and dedication. Subsequently, computational side in the field of Electrical Engineering attracts my attention.

With regards to my Bachelor studies, I stayed sophisticated focused throughout my stay at the university for the fulfillment of my dreams. I tried my best to participate in every seminar significant to my field, so I attended different symposia such as related to robotics competition, Robo Race, programing competition and invention in the field of engineering, etc. Besides this, I participated in class discussions and meetings which helped me a lot in the development of my personality. Moreover, I actively participated in different mini projects. Other than this, I have practical industrial oriented experience as well and have done internship program during my bachelor's degree. I took part in class presentations assigned in the course of my undergraduate studies. I have sufficient language, communication, and organizational skills. Furthermore, I have had excellent leadership skills due to which I lead my group in final year project as a leader and have the ability to perform well in group tasks.

In connection with my final year project, I analyzed myself during these four years, and I found out that I have developed a keen interest in the Computational side of Electrical Engineering. As a result, I selected my final year project under the supervision of Dr. Shoaib Ahmed Khan titled “Adaptive Home Automation” However, my focus was on the computational side of the mentioned technology. The primary concern of this project was to simulate particle Home automation systems have emerged to be a gigantic technological breakthrough that a lot of businesses have invested in. However, a home automation system that adapts according to the user's previous use of the

system is a new idea that has arisen. This project outlays a design that depicts an adaptive home automation system that is integrated with safety features. The design is triggered by an alarm clock, which also makes use of several sensors as a motion sensor plays a vital role. K-nearest neighbour (KNN) algorithm is used as a machine learning tool to adapt, where software packages as Googles ML kit and MIT App inventor have been used that aided in creating a cloud which enables the user to connect the system with a smart phone.

As for as my future study program is concerned, I want to do my higher study in one of the advanced and developed countries of the world. For that purpose, I found China the most suitable country in the world because of its excellent and efficient research in science and technology. I impress from the education system of China because the educational institutes of China are providing opportunities to their students to show their capabilities. So I searched about different universities for carrying out my research in the fields of Electrical Engineering. I want to become a productive professional researcher, and it's my ambition to share my knowledge as much as possible. For that purpose, I want to become a teacher, and it's my passion to share the ideas of engineering worldwide. Hopefully, I will fulfill my dreams if I get admission China Government Scholarship.